

indoor floor crossmember 40. Further, the battery case 70 extends from a position located forward of the indoor floor crossmember 40 to a position located rearward of the indoor floor crossmember 40 and forward of the outdoor floor crossmember 42 (i.e., to a position within the range 94 shown in FIG. 7). Arranging the outdoor floor crossmember 42 rearward of the indoor floor crossmember 40 allows the battery case 70 to extend into the range 94 and enables a size increase of the battery case 70. This enables an increased capacity of the main battery housed in the battery case 70.

[0035] Further, in the body 10 of the embodiment, the indoor floor crossmember 40 connects the left rocker 30 and the right rocker 32 to each other, and the outdoor floor crossmember 42 connects the left rocker 30 and the right rocker 32 to each other. In other words, the indoor floor crossmember 40 is directly joined to the left rocker 30 and the right rocker 32, and the outdoor floor crossmember 42 is directly joined to the left rocker 30 and the right rocker 32. The outdoor floor crossmember 42 is located rearward of the indoor floor crossmember 40. Thus, as shown in FIG. 3, in the planar view of the underbody from above, the indoor floor crossmember 40, the outdoor floor crossmember 42, the left rocker 30, and the right rocker 32 constitute a substantially rectangular frame. This frame is highly rigid. Thus, in the event of a lateral collision to the vehicle, deformation of the left rocker 30 and the right rocker 32 is mitigated. As shown in FIG. 7, the battery case 70 is located between the left rocker 30 and the right rocker 32. Since the left rocker 30 and the right rocker 32 are less likely to be deformed in the event of a lateral collision to the vehicle, a load applied to the battery case 70 is mitigated. Thus, the battery can be suitably protected.

[0036] Further, in the body 10 of the embodiment, the left reinforcement 60 is disposed above the left rear side member 50. The front end of the left rear side member 50 is joined to the outdoor floor crossmember 42. The left reinforcement 60 is joined to the indoor floor crossmember 40 and is also joined to the rear floor panel 20b above the left rear side member 50. In this configuration, the left rear side member 50 is reinforced by the left reinforcement 60. Thus, deformation of the left rear side member 50 is mitigated when a rear-collision occurs to the vehicle. Further, at the inclined portion 50x, the left rear side member 50 is inclined to shift upward toward the rear end of the vehicle. Thus, a rear end of the left rear side member 50 is located above a portion of the rear floor panel 20b that is located frontward of the outdoor floor crossmember 42. Thus, when a rear-collision occurs to the vehicle, a moment load is applied to the portion of the rear floor panel 20b that is located frontward of the outdoor floor crossmember 42. Since the left reinforcement 60 is joined to the indoor floor crossmember 40 and is also joined to the rear floor panel 20b at a position rearward of the outdoor floor crossmember 42, the moment load applied to the portion of the rear floor panel 20b that is located frontward of the outdoor floor crossmember 42 can be reduced. In particular, since the left reinforcement 60 is joined to the upper surface of the indoor floor crossmember 40 which is located above the rear floor panel 20b, a height difference between a collision point (the rear end of the left rear side member 50) and a support point (the front end of the left reinforcement 60) is small, which efficiently reduces the moment load. The moment load can be reduced also by the right rear side member 52 and the right reinforcement 62, in the same manner.

[0037] Further, in the body 10 of the embodiment, the left reinforcement 60 includes the high rigidity portions 60a, 60b. Thus, the left reinforcement 60 is highly rigid and can suitably reinforce the left rear side member 50. Further, the low rigidity portion 60c is disposed between the high rigidity portions 60a and 60b. Thus, when a rear-end collision occurs to the vehicle, application of an excessive load onto the joint site between the left reinforcement 60 and the indoor floor crossmember 40 is suppressed. This prevents the indoor floor crossmember 40 from being excessively deformed. Since the right reinforcement 62 has a similar structure, similar effects can be obtained.

[0038] Further, in the body 10 of the embodiment, the left reinforcement 60 extends to a position rearward of the rear floor crossmember 44 and extends to a position above the horizontal portion 20y. Arranging the left reinforcement 60 to extend up to the rear part of the vehicle enables the left reinforcement 60 to more efficiently reinforce the left rear side member 50. Further, joining the left reinforcement 60 to the left wheel house panel 34 enhances this reinforcement effect. Since the right reinforcement 62 has a similar structure, the right reinforcement 62 can also efficiently reinforce the right rear side member 52.

[0039] Some of the technical elements disclosed herein will be listed below. It should be noted that the respective technical elements are independent of one another, and are useful solely or in combinations.

[0040] In an aspect of the body disclosed herein, the body may further comprise a rear side member and a reinforcement. The rear side member may protrude downward from the floor panel, be joined to the outdoor floor crossmember, and extend rearward from the outdoor floor crossmember along one of the side edges of the floor panel. The reinforcement may be joined to the indoor floor crossmember, extend from the indoor floor crossmember to a position above the rear side member, and be joined to the floor panel at the position above the rear side member.

[0041] This configuration enables the reinforcement to reinforce the rear side member. Thus, collision durability of the vehicle against a rear-end collision can be improved.

[0042] In an aspect of the body disclosed herein, the reinforcement may comprise a plurality of high rigidity portions which is arranged along a right-left direction at intervals and extends along a front-rear direction, and a low rigidity portion located between the high rigidity portions.

[0043] This configuration can ensure the rigidity of the reinforcement and prevent an excessively high load from being applied onto the indoor floor crossmember in the event of a rear-end collision to the vehicle.

[0044] In an aspect of the body disclosed herein, the floor panel may comprise a first inclined portion that extends so as to shift upward toward a rear end of the electric vehicle in a range rearward of the outdoor floor crossmember. The rear side member may comprise a second inclined portion that extends so as to shift upward toward the rear end of the electric vehicle along the first inclined portion.

[0045] In this configuration, the reinforcement reduces a moment load that is applied to the floor panel through the rear side member in the event of a rear-end collision to the vehicle.

[0046] In an aspect of body disclosed herein, the floor panel may further comprise a horizontal portion located